



PTO/SB/08a (07-09)

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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/582,918-Conf. #8250
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Filing Date	June 14, 2006
				First Named Inventor	Burkhard KROGER
				Art Unit	1636
				Examiner Name	M. K. Joike
				Attorney Docket Number	PKI-186US
Sheet	1	of	12		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1*	US-4,489,160	12-18-1984	Katsumata et al.	
	A2*	US-4,601,893	07-22-1986	Cardinal	
	A3*	US-5,158,891	10-27-1992	Takeda et al.	
	A4*	US-5,175,108	12-29-1992	Bachmann et al.	
	A5*	US-5,759,610	06-02-1998	Nishimoto et al.	
	A6*	US-5,965,391	10-12-1999	Reinscheid et al.	
	A7*	US-6,238,896	05-29-2001	Ozaki et al.	
	A8*	US-20020197605-A1	12-26-2002	Nakagawa et al.	
	A9*	US-20030049804-A1	03-13-2003	Pompejus et al.	
	A10*	US-20030092137	05-15-2003	Farwick et al.	
	A11*	US-20030162267-A1	08-28-2003	Pompejus et al.	
	A12*	US-20030175503-A1	09-18-2003	Lucast et al.	
	A13*	US-6,696,561	02-24-2004	Pompejus et al.	
	A14*	US-20040043953-A1	03-04-2004	Pompejus et al.	
	A15*	US-20040180408-A1	09-16-2004	Pompejus et al.	
	A16*	US-6,822,084	11-23-2004	Pompejus et al.	
	A17*	US-6,921,651-A1	07-26-2005	Farwick et al.	
	A18*	US-7,313,177	12-25-2007	Radjassamy	
	A19*	US-20080118948	05-22-2008	Kroger et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B1	EP-0472869-B1	03-04-1992	DeGussa AG		
	B2	WO-96/15246-A1	05-23-1996	Forschungszentrum Jülich GmbH		
	B3	DE-4440118-C1	11-09-1995	Forschungszentrum Jülich GmbH		Abstr.
	B4	JP-10-229891	09-02-1998	Mitsubishi Rayon Co.		Abstr.
	B5	WO-01/00804-A2	01-04-2001	BASF Aktiengesellschaft		
	B6	WO-01/00842-A2	01-04-2001	BASF Aktiengesellschaft		

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	B7	WO-01/00843-A2	01-04-2001	BASF Aktiengesellschaft		
	B8	WO-01/00844-A2	01-04-2001	BASF Aktiengesellschaft		
	B9	WO-02/29029-A2	04-11-2002	DeGussa AG		
	B10	WO-02/051231-A1	07-04-2002	BASF Aktiengesellschaft		
	B11	DE-10112992-A1	09-26-2002	DeGussa AG		Abstr.
	B12	WO-03/040373-A2	05-15-2003	DeGussa AG		

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	B13	CA-2548306-A1	06-30-2005	BASF Aktiengesellschaft		
	B14	CA-2549171-A1	06-30-2005	BASF Aktiengesellschaft		
	B15	WO-05/059143-A1	06-30-2005	BASF Aktiengesellschaft		
	B16	WO-05/059144-A1	06-30-2005	BASF Aktiengesellschaft		

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				Examiner Name	M. K. Joike
Sheet	4	of	12	Attorney Docket Number	PKI-186US

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	C1	Bachmann, A. et al., "Aerobic Biomineralization of Alpha-Hexachlorocyclohexane in Contaminated Soil," <i>Applied and Environmental Microbiology</i> , Vol. 54(2):548-554 (1988)		
	C2	Bernard, Philippe et al., "The F Plasmid CdcB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," <i>J. Mol. Biol.</i> , Vol. 234:534-541 (1993)		
	C3	Blomfield, I.C. et al., "Allelic exchange in <i>Escherichia coli</i> using the <i>Bacillus subtilis</i> <i>sacB</i> gene and a temperature-sensitive pSC101 replicon," <i>Molecular Microbiology</i> , Vol. 5(6):1447-1457 (1991)		
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	C5	Cane, David E. et al., "Harnessing the Biosynthetic Code: Combinations, Permutations, and Mutations," <i>Science</i> , Vol. 282:63-68 (1998)		
	C6	Christopherson, Richard I. et al., "Potent Inhibitors of De Novo Pyrimidine and Purine Biosynthesis as Chemotherapeutic Agents," <i>Medicinal Research Reviews</i> , Vol. 10(4):505-548 (1990)		
	C7	de León, Patricia et al., " <i>Streptomyces lividans</i> <i>groES</i> , <i>groEL1</i> and <i>groEL2</i> genes," <i>Microbiology</i> , Vol. 143:3563-3571 (1997)		
	C8	Dunican, L. Kieran et al., "High Frequency Transformation of Whole Cells of Amino Acid Producing Coryneform Bacteria Using High Voltage Electroporation," <i>Bio/Technology</i> , Vol. 7:1067-1070 (1989)		
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	C10	Eikmanns, Bernhard J. et al., "Nucleotide sequence, expression and transcriptional analysis of the <i>Corynebacterium glutamicum</i> <i>gltA</i> gene encoding citrate synthase," <i>Microbiology</i> , Vol. 140:1817-1828 (1994)		

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	C12	Follettie, Maximillian T. et al., "Gene Structure and Expression of the <i>Corynebacterium flavum</i> N13 ask-asd Operon," <i>Journal of Bacteriology</i> , Vol. 175(13):4096-4103 (1993)	
	C13	GenBank AC AFF70991, Yuhki, N. et al., "Sequence Diversity of Major Histocompatibility Complex Class II DRB Exon 2 Region of Two Sister Species of the Felidae, Ocelot (<i>Leopardus pardalis</i>) and Margay (<i>Leopardus wiedii</i>)," 05-21-2000	
	C14	GenBank AC AAH68534, Strausberg, R.L. et al., "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences," <i>Proc. Natl. Acad. Sci. U.S. A.</i> , Vol. 99(26):16899-16903 (2002) 10/06/2006	
	C15	GenBank AC AB055218, Nakagawa, S. et al., "SOD of <i>Corynebacterium glutamicum</i> ATCC 13032," 08-02-2001	
	C16	GenBank AC AF236111, Merkamm, M. et al., "Cloning of the sodA gene from <i>Corynebacterium melassecola</i> and role of superoxide dismutase in cellular viability," <i>J. Bacteriol.</i> , Vol. 183(4):1284-1295 (2001) 02-07-2001	
	C17	GenBank AC AP005283, Nakagawa, S., "Complete genomic sequence of <i>Corynebacterium glutamicum</i> ATCC 13032," 08-08-2002	
	C18	GenBank AC AY513596, Park, S.-D., "Corynebacterium glutamicum isolate promoter functional region," 12-01-2004	
	C19	GenBank AC BX927154, 11-14-2006	
	C20	Greasham, Randolph L. et al., "Design and optimization of growth media," <i>Applied Microbial Physiology</i> . Eds. P.M. Rhodes, et al., IRL Press at Oxford University Press, 1997. 53-73.	

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	C21	Guerrero, Carmen et al., "Directed mutagenesis of a regulatory palindromic sequence upstream from the <i>Brevibacterium lactofermentum</i> tryptophan operon," <i>Gene</i> , Vol. 138:35-41 (1994)	
	C22	Gupta, Radhey S., "Evolution of the chaperonin families (Hsp60, Hsp10 and Tcp-1) of proteins and the origin of eukaryotic cells," <i>Molecular Microbiology</i> , Vol. 15(1):1-11 (1995)	
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	C24	Higgins, Desmond G. et al., "Fast and sensitive multiple sequence alignments on a microcomputer," <i>Cabios Communications</i> , Vol. 5(2):151-153 (1989)	
	C25	Ivanov, Ivan G. et al., "Expression of human alpha 1 interferon genes in vectors containing tandemly located promoters recognized by two different RNA polymerases (<i>Escherichia coli</i> and T7)," <i>FEMS Microbiology Letters</i> , Vol. 108:231-236 (1993)	
	C26	Jäger, W. et al., "Expression of the <i>Bacillus subtilis</i> sacB Gene Leads to Sucrose Sensitivity in the Gram-Positive Bacterium <i>Corynebacterium glutamicum</i> but Not in <i>Streptomyces lividans</i> ," <i>Journal of Bacteriology</i> , Vol. 174(16):5462-5465 (1992)	
	C27	Jensen, Peter Ruhdal et al., "Artificial Promoters for Metabolic Optimization," <i>Biotechnology and Bioengineering</i> , Vol. 58(2&3):191-195 (1998)	
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	C29	Kennell, David E., "Principles and Practices of Nucleic Acid Hybridization," <i>Progress in Nucleic Acid Research and Molecular Biology</i> , Vol. 11, J.N. Davidson, Ed., Academic Press, pgs. 259-301 (1971)	
	C30	Kronmeyer, Wolfgang et al., "Structure of the gluABCD Cluster Encoding the Glutamate Uptake System of <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 177(5):1152-1158 (1995)	

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	C31	Kuninaka, Akira, "Nucleotides and Related Compounds," <i>Biotechnology</i> , Ed. Rehm et al., VCH, Vol. 6:561-612 (1996)	
	C32	Labarre, Jean et al., "Gene Replacement, Integration, and Amplification at the <i>gdhA</i> Locus of <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 175(4):1001-1007 (1993)	
	C33	Lénnox, E.S., "Transduction of Linked Genetic Characters of the Host by Bacteriophage P1," <i>Virology</i> , Vol. 1:190-206 (1955)	
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	C35	Liebl, W. et al., "High efficiency electroporation of intact <i>Corynebacterium glutamicum</i> cells," <i>FEMS Microbiology Letters</i> , Vol. 65:299-304 (1989)	
	C36	Makrides, Savvas C., "Strategies for Achieving High-Level Expression of Genes in <i>Escherichia coli</i> ," <i>Microbiological Reviews</i> , Vol. 60(3):512-538 (1996)	
	C37	Malakhova, I.I. et al., "Thin-layer Chromatography of Free Amino Acids. Selection of Conditions for the Separation of L-Lysine, L-Homoserine, and L-Threonine," <i>Russian Biotechnology</i> , Vol. 11:26-31 (1996)	
	C38	Malumbres, Marcos et al., "Codon preference in <i>Corynebacteria</i> ," <i>Gene</i> , Vol. 134:15-24 (1993)	
	C39	Martín, J.F. et al., "Cloning Systems in Amino Acid-producing <i>Corynebacteria</i> ," <i>Bio/Technology</i> , Vol. 5:137-146 (1987)	
	C40	Menkel, Elke et al., "Influence of Increased Aspartate Availability on Lysine Formation by a Recombinant Strain of <i>Corynebacterium glutamicum</i> and Utilization of Fumarate," <i>Applied and Environmental Microbiology</i> , Vol. 44(3):684-688 (1989)	

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	C41	Merkamm, Muriel et al., "Cloning of the soldA Gene from <i>Corynebacterium melassecola</i> and Role of Superoxide Dismutase in Cellular Viability," <i>Journal of Bacteriology</i> , Vol. 183(4):1284-1295 (2001)	
	C42	Michal, G., "Nucleotide und Nucleoside," <i>Biochemical Pathways: An Atlas of Biochemistry and Molecular Biology</i> , Ed. Viley, pp. 99-107 (1999)	
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	C44	Neidhardt, Frederick C. et al., "Chemical Composition of <i>Escherichia coli</i> ," <i>Escherichia coli and Salmonella</i> , ASM Press, 2nd Edition, Vol. 1:13-16 (1996)	
	C45	Paiva, Carmen L.A. et al., "Biotechnological applications of the disaccharide trehalose," <i>Biotechnology Annual Review</i> , Vol. 2:293-314 (1996)	
	C46	Park, Soo-Dong et al., "Isolation and Characterization of Transcriptional Elements from <i>Corynebacterium glutamicum</i> ," <i>J. Microbiol. Biotechnol.</i> , Vol. 14(4):789-795 (2004)	
	C47	Pátek, Miroslav et al., "Leucine Synthesis in <i>Corynebacterium glutamicum</i> : Enzyme Activities, Structure of <i>leuA</i> , and Effect of <i>leuA</i> Inactivation on Lysine Synthesis," <i>Applied and Environmental Microbiology</i> , Vol. 60(1):133-140 (1994)	
	C48	Pátek, Miroslav et al., "Promoters from <i>Corynebacterium glutamicum</i> : cloning, molecular analysis and search for a consensus motif," <i>Microbiology</i> , Vol. 142:1297-1309 (1996)	
	C49	Reinscheid, Dieter J. et al., "Cloning, sequence analysis, expression and inactivation of the <i>Corynebacterium glutamicum</i> pta-ack operon encoding phosphotransacetylase and acetate kinase," <i>Microbiology</i> , Vol. 145:503-513 (1999)	
	C50	Reinscheid, Dieter J. et al., "Stable Expression of <i>hom-1-thrB</i> in <i>Corynebacterium glutamicum</i> and Its Effect on the Carbon Flux to Threonine and Related Amino Acids," <i>Applied and Environmental Microbiology</i> , Vol. 60(1):126-132 (1994)	

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	C51	Sambrook, J. et al., "Analysis of Genomic DNA by Southern Hybridization," Analysis and Cloning of Eukaryotic Genomic DNA, <i>Molecular Cloning, A Laboratory Manual, 2nd Edition</i> , Cold Spring Harbor Laboratory Press, Vol. 2, pp. 9.31-9.62 (1989)		
	C52	Sanger, F. et al., "DNA sequencing with chain-terminating inhibitors," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 74(12):5463-5467 (1977)		
	C53	Schäfer, Andreas et al., "Small mobilizable multi-purpose cloning vectors derived from the <i>Escherichia coli</i> plasmids pK18 and pK19: selection of defined deletions in the chromosome of <i>Corynebacterium glutamicum</i> ," <i>Gene</i> , Vol. 145:69-73 (1994)		
	C54	Schmidt, S. et al., "Near infrared spectroscopy in fermentation and quality control for amino acid production," <i>Bioprocess Engineering</i> , Vol. 19:67-70 (1998)		
	C55	Schrumpf, Bärbel et al., "A Functionally Split Pathway of Lysine Synthesis in <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 173(14):4510-4516 (1991)		
	C56	Schwarzer, Astrid et al., "Manipulation of <i>Corynebacterium Glutamicum</i> by Gene Disruption and Replacement," <i>Bio/Technology</i> , Vol. 9:84-87 (1991)		
	C57	Serwold-Davis, Theresa M. et al., "Localization of an origin of replication in <i>Corynebacterium diphtheriae</i> broad host range plasmid pNG2 that also functions in <i>Escherichia coli</i> ," <i>FEMS Microbiology Letters</i> , Vol. 66:119-124 (1990)		
	C58	Shiosaka, Makoto, "Application of Trehalose," <i>FFI Journal</i> , Vol. 172:97-102 (1997)		
	C59	Simmonds, H.A., "The Enzymes of Nucleotide Biosynthesis," <i>Biochemical Society Transactions</i> , Vol. 23:877-902 (1995)		
	C60	Simon, R. et al., "A Broad Host Range Mobilization System for <i>In Vivo</i> Genetic Engineering: Transposon Mutagenesis in Gram Negative Bacteria," <i>Bio/Technology</i> , Vol. 1:784-791 (1983)		

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				Application Number	10/582,918-Conf. #8250
				Filing Date	June 14, 2006
				First Named Inventor	Burkhard KROGER
				Art Unit	1636
				Examiner Name	M. K. Joike
Sheet	10	of	12	Attorney Docket Number	PKI-186US

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	C61	Singer, Mike A. et al., "Thermotolerance in <i>Saccharomyces cerevisiae</i> : the Yin and Yang of trehalose," <i>Trends Biotech</i> , Vol. 16:460-467 (1998)		
	C62	Smith, Janet L., "Enzymes of nucleotide synthesis," <i>Current Opinion in Structural Biology</i> , Vol. 5:752-757 (1995)		
	C63	Sonnen, Hans et al., "Characterization of pGA1, a new plasmid from <i>Corynebacterium glutamicum</i> LP-6," <i>Gene</i> , Vol. 107:69-74 (1991)		
	C64	Spratt, Brian G. et al., "Kanamycin-resistant vectors that are analogues of plasmids pUC8, pUC9, pEMBL8 and pEMBL9," <i>Gene</i> , Vol. 41:337-342 (1986)		
	C65	Strauss, William M., "Hybridization with Radioactive Probes," <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, N.Y., pp. 6.3.1-6.3.6 (1993)		
	C66	Stryer, Lubert, "Amino Acid Degradation and the Urea Cycle" <i>Biochemistry, Third Edition</i> , W.H. Freeman and Company, pp. 495-516, Chapt. 21, (1988)		
	C67	Stryer, Lubert, "Biosynthesis of Amino Acids and Heme" <i>Biochemistry, Third Edition</i> , W.H. Freeman and Company, pp. 575-600, Chapt. 24, (1988)		
	C68	Tauch, Andreas et al., " <i>Corynebacterium glutamicum</i> DNA is subjected to methylation-restriction in <i>Escherichia coli</i> ," <i>FEMS Microbiology Letters</i> , Vol. 123:343-348 (1994)		
	C69	Tauch, Andreas et al., "The Erythromycin Resistance Gene of the <i>Corynebacterium xerosis</i> R-plasmid pTP10 Also Carrying Chloramphenicol, Kanamycin, and Tetracycline Resistances Is Capable of Transposition in <i>Corynebacterium glutamicum</i> ," <i>Plasmid</i> , Vol. 33:168-179 (1995)		
	C70	Tauschek, Marija et al., "Transcriptional analysis of the <i>groESL</i> operon of <i>Neisseria gonorrhoeae</i> ," <i>Gene</i> , Vol. 189:107-112 (1997)		

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	C71	Thierbach, Georg et al., "Transformation of spheroplasts and protoplasts of <i>Corynebacterium glutamicum</i> ," <i>Applied Microbiology and Biotechnology</i> , Vol. 29:356-362 (1988)	
	C72	Thies, Frank L. et al., "Cloning, sequencing and molecular analysis of the <i>Campylobacter jejuni groESL</i> bicistronic operon," <i>Microbiology</i> , Vol. 145:89-98 (1999)	
	C73	Tsuchiya, Makoto et al., "Genetic Control Systems of <i>Escherichia Coli</i> Can Confer Inducible Expression of Cloned Genes in Coryneform Bacteria," <i>Bio/Technology</i> , Vol. 6:428-430 (1988)	
	C74	Ullmann's Encyclopedia of Industrial Chemistry, "Amino Acids," Eds. Barbara Elvers et al., VCH, Vol. A2:57-97 (1985)	
	C75	Ullmann's Encyclopedia of Industrial Chemistry, "Chemical Analysis," Eds. Barbara Elvers et al., VCH, Vol. A27:89-90 (1996)	
	C76	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:443-613 (1996)	
	C77	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:521-547 (1996)	
	C78	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:559-566 (1996)	
	C79	Ullmann's Encyclopedia of Industrial Chemistry, "Vitamins," Eds. Barbara Elvers et al., VCH, Vol. A27:575-587 (1996)	
	C80	Umbarger, H.E., "Amino Acid Biosynthesis and its Regulation," <i>Ann. Rev. Biochem.</i> , Vol. 47:533-606 (1978)	

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	C81	Vašicová, Pavla et al., "Analysis of the <i>Corynebacterium glutamicum</i> <i>dapA</i> Promoter," <i>Journal of Bacteriology</i> , Vol. 181(19):6188-6191 (1999)	
	C82	Voet, Donald et al., "Nucleic Acid Structures and Manipulation," <i>Biochemistry</i> , Wiley Press, Chapt. 28, pp. 896-897 (1995)	
	C83	Zalkin, Howard et al., "De Novo Purine Nucleotide Biosynthesis," <i>Progress in Nucleic Acid Research and Molecular Biology</i> , Vol. 42:259-287 (1992)	
	C84	International Search Report for Application No. PCT/EP2004/014263, dated April 27, 2005	
	C85	International Search Report for Application No. PCT/EP2004/014337, dated April 1, 2005	
	C86	International Preliminary Report on Patentability for Application No. PCT/EP2004/014337, dated November 10, 2005	
	C87	International Search Report for Application No. PCT/EP2005/007758, dated December 20, 2005	
	C88	International Preliminary Report on Patentability for Application No. PCT/EP2005/007758, dated January 23, 2007	

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